

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651945

Luminaire Tested: **GALN-SA6A-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-840-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19330.4 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

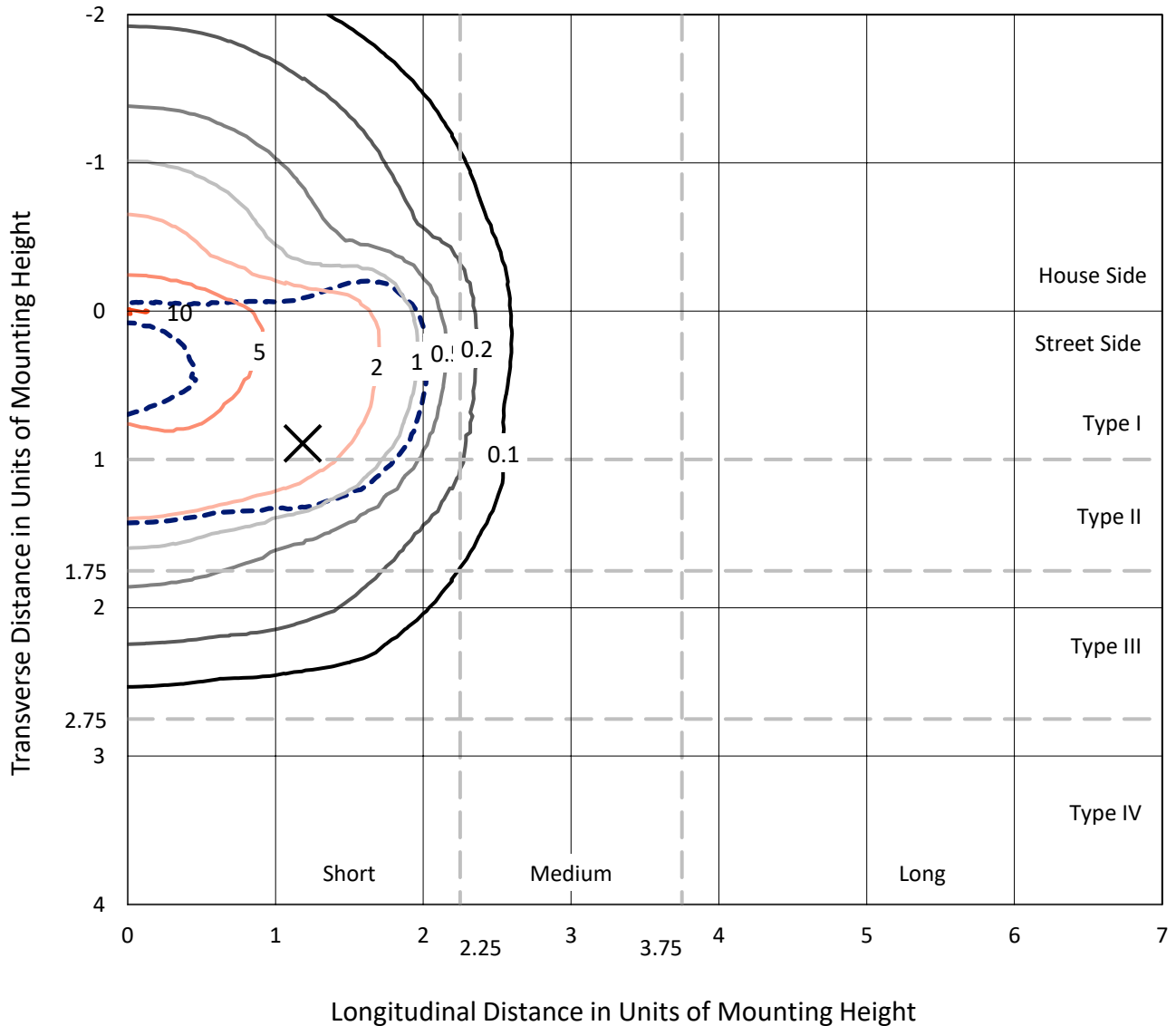
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

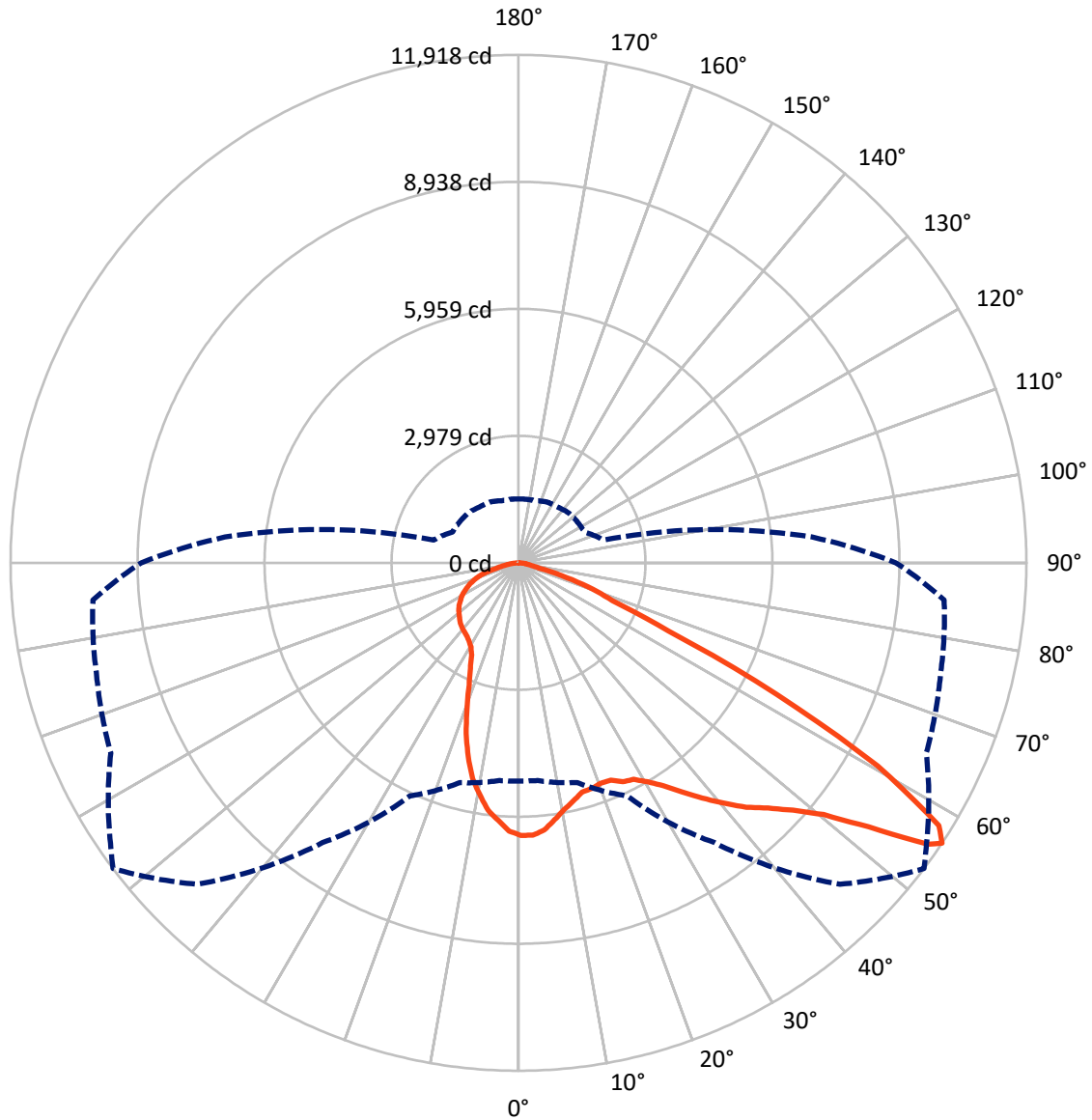
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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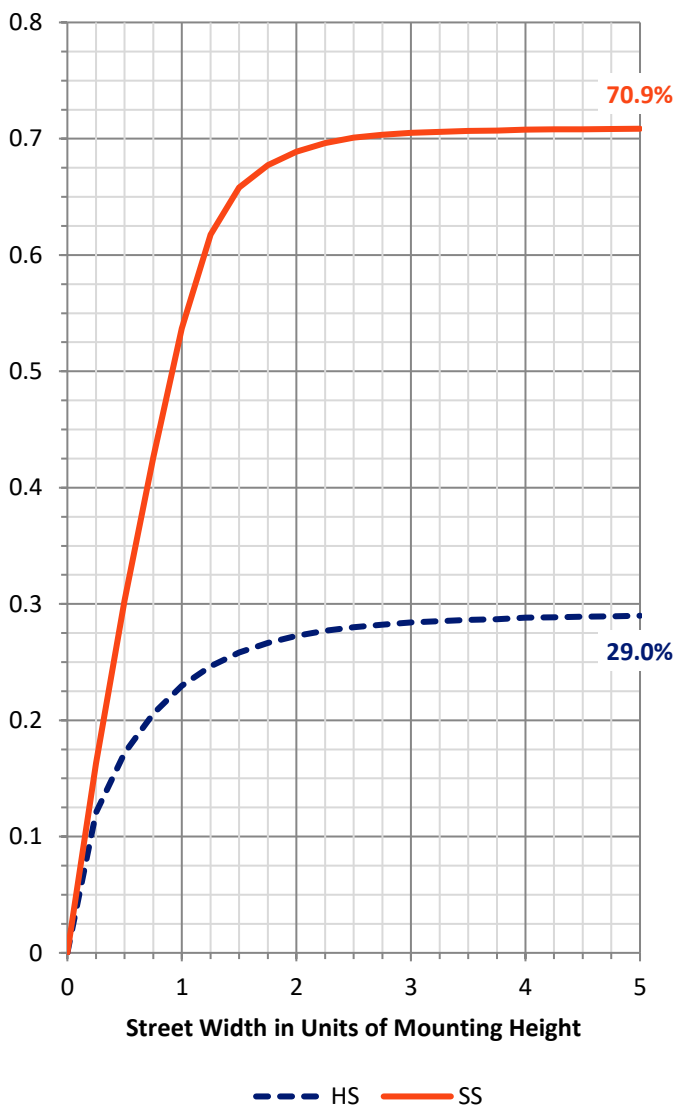
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5641.0	0.0	5641.0
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	13689.4	0.0	13689.4
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	19330.4	0.0	19330.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	566.2	2.9
10°-20°	1414.0	7.3
20°-30°	2085.1	10.8
30°-40°	2979.2	15.4
40°-50°	4100.5	21.2
50°-60°	4845.7	25.1
60°-70°	2582.4	13.4
70°-80°	655.1	3.4
80°-90°	102.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19330.4	100.0
0°-180°	19330.4	100.0

**Coefficient of Utilization**

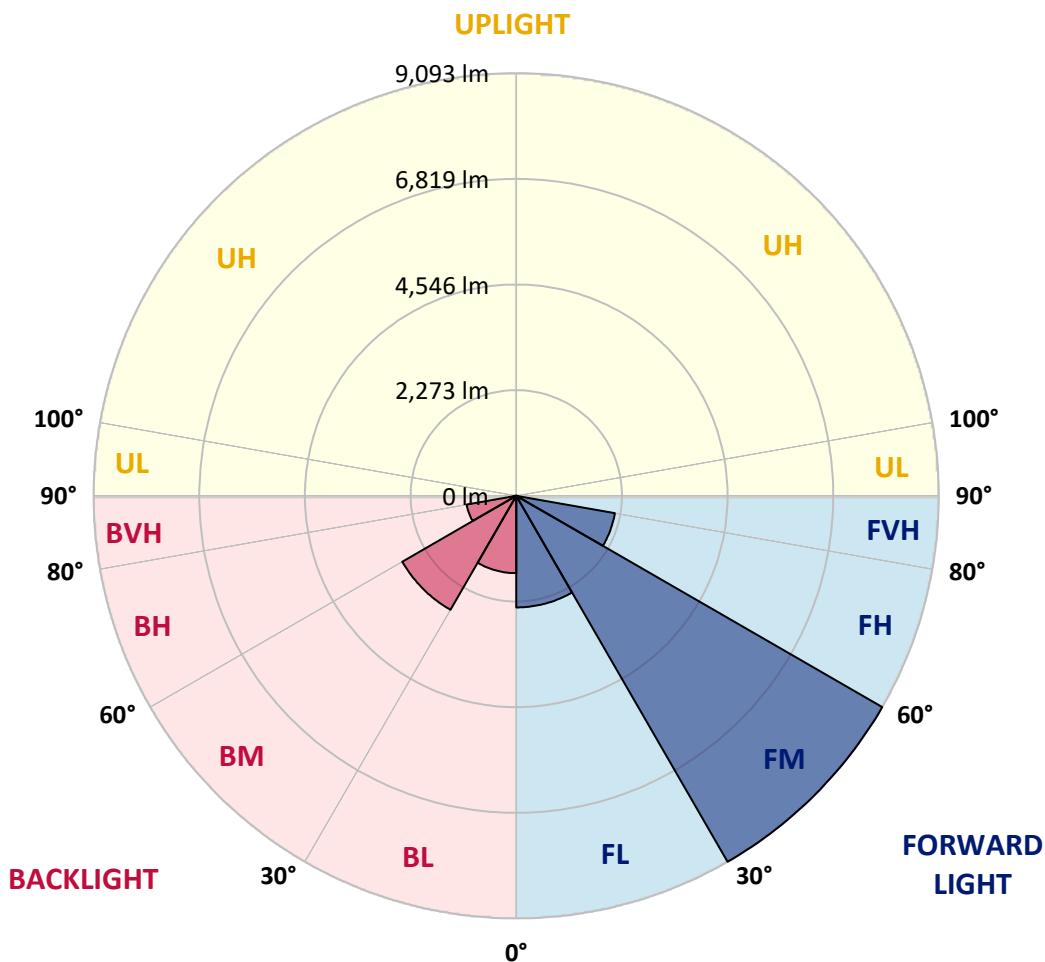


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2401.5	12.4			
FM (30°-60°)	9092.6	47.0			
FH (60°-80°)	2154.1	11.1			G2/5000
FVH (80°-90°)	41.1	0.2			G1/100
BL (0°-30°)	1663.8	8.6	B3/2500		
BM (30°-60°)	2832.7	14.7	B3/5000		
BH (60°-80°)	1083.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	61.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6395.2	6395.2	6395.2	6395.2	6395.2	6395.2	6395.2	6395.2	6395.2	6395.2	6395.2
2.5°	6315.9	6261.3	6293.6	6281.2	6382.9	6412.6	6397.7	6410.1	6467.2	6439.9	6382.9
5°	5901.8	5978.7	5993.6	6030.7	6090.3	6206.8	6298.5	6323.3	6350.6	6477.0	6464.7
7.5°	5524.9	5576.9	5549.7	5658.8	5787.7	5976.1	6087.7	6107.6	6358.0	6427.5	6479.6
10°	5286.8	5234.7	5358.7	5388.5	5534.8	5750.5	5884.4	5966.2	6194.4	6469.6	6501.9
12.5°	5066.1	5048.8	5123.1	5207.5	5371.1	5594.3	5730.7	5763.0	6115.1	6405.1	6556.4
15°	4902.4	4882.6	4957.0	5019.0	5209.9	5408.3	5581.9	5673.6	6028.3	6368.0	6509.3
17.5°	4773.5	4771.0	4813.2	4924.7	5120.7	5286.8	5567.0	5572.0	5983.6	6425.0	6549.0
20°	4766.0	4763.6	4771.0	4895.0	5073.6	5276.9	5519.9	5564.6	5983.6	6385.3	6551.5
22.5°	4828.1	4788.4	4833.0	4912.4	5041.3	5294.3	5537.2	5636.5	6127.4	6581.2	6663.1
25°	4927.3	4937.2	4962.0	4989.2	5063.7	5334.0	5691.0	5772.9	6296.1	6749.9	6816.8
27.5°	5108.2	5103.3	5113.2	5128.1	5192.6	5371.1	5753.0	5963.8	6648.2	7049.9	6983.0
30°	5373.6	5356.2	5395.9	5448.0	5388.5	5490.1	5958.8	6117.5	6975.5	7352.4	7168.9
32.5°	5614.1	5678.6	5753.0	5775.3	5703.4	5723.3	6231.6	6392.8	7248.2	7724.4	7397.1
35°	5914.2	5966.2	6065.5	6134.8	6122.5	6062.9	6603.5	6816.8	7642.6	7997.2	7637.6
37.5°	6206.8	6268.8	6432.5	6638.3	6524.2	6496.9	7000.3	7176.3	7764.1	8143.5	7813.6
40°	6678.0	6675.4	6958.2	7064.8	7166.4	7119.3	7412.0	7471.4	7828.5	8111.2	7818.6
42.5°	7230.9	7196.2	7483.9	7650.0	7781.4	7786.4	7841.0	7821.1	7858.3	7947.5	7766.6
45°	7756.6	7831.1	8121.1	8418.7	8550.1	8565.0	8202.9	8165.8	7910.4	7900.4	7667.4
47.5°	8398.9	8416.2	8654.3	9046.1	9351.1	9247.0	8671.6	8589.8	8138.5	8215.4	7833.5
50°	8436.1	8565.0	8778.3	9239.5	10176.9	10149.6	9279.2	9125.4	8505.5	8661.7	8297.2
52.5°	7657.5	7627.7	7880.6	8634.5	10114.9	11047.2	10285.9	9919.0	9294.1	9175.1	9048.6
55°	5834.9	5904.2	6127.4	6888.7	8783.2	11059.7	11657.3	11357.2	10137.2	9933.8	9787.6
56°	5118.2	5128.1	5338.9	6033.2	8014.6	10665.4	11917.6	11674.6	10556.2	10246.3	10023.1
57.5°	4242.8	4185.8	4294.9	4674.3	6764.8	9832.2	11632.5	11870.5	11047.2	10583.6	10273.6
60°	3340.2	3327.8	3283.2	3352.6	4275.1	7407.0	9683.4	10219.0	10997.7	10266.2	9839.6
62.5°	2727.7	2665.7	2755.0	2854.2	2970.7	4595.0	6804.4	7119.3	8731.2	8195.5	7392.1
65°	2115.2	2085.4	2197.0	2519.4	2588.9	2918.7	3875.8	4118.9	5155.4	5063.7	4458.6
67.5°	1455.6	1460.6	1557.3	2048.3	2400.4	2370.6	2373.1	2499.6	2690.5	1998.6	1740.8
70°	922.5	920.0	972.0	1319.2	1931.7	1951.5	1852.4	1815.1	1720.9	1041.5	1103.5
72.5°	592.7	575.3	602.6	729.1	999.4	1155.5	1190.3	1212.6	996.8	818.3	887.8
75°	334.8	317.4	307.5	339.8	394.3	456.2	500.9	515.8	577.8	619.9	657.2
77.5°	101.7	91.8	111.6	148.8	195.9	262.8	319.9	329.8	389.3	438.9	476.1
80°	44.7	49.6	69.5	99.2	138.8	185.9	225.6	240.5	280.2	317.4	327.3
82.5°	27.2	29.8	47.1	66.9	96.7	131.4	161.2	166.2	205.8	235.6	243.0
85°	9.9	12.4	24.8	39.7	62.0	84.4	84.4	91.8	84.4	84.4	91.8
87.5°	0.0	0.0	2.4	5.0	5.0	7.4	9.9	9.9	12.4	14.9	17.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6395.2	6395.2	6395.2	6395.2	6395.2	6395.2	6395.2	6395.2	6395.2	6395.2	6395.2
2.5°	6412.6	6400.2	6380.4	6308.4	6301.0	6278.7	6154.7	6134.8	6154.7	6095.2	6100.2
5°	6400.2	6437.4	6288.7	6216.7	6082.8	5986.1	5874.5	5817.4	5715.8	5651.4	5723.3
7.5°	6454.8	6439.9	6253.9	6097.7	5896.8	5651.4	5455.4	5343.9	5165.3	5115.7	5152.9
10°	6434.9	6355.6	6137.4	5931.6	5552.1	5336.4	5019.0	4711.5	4542.9	4456.1	4443.7
12.5°	6407.7	6385.3	6020.8	5666.2	5266.9	4813.2	4366.8	4076.7	3801.4	3682.4	3699.8
15°	6439.9	6251.4	5802.6	5353.7	4823.1	4228.0	3746.9	3372.4	3181.5	3104.6	3104.6
17.5°	6425.0	6187.0	5698.4	5004.1	4332.1	3627.8	3099.7	2874.0	2794.6	2794.6	2817.0
20°	6432.5	6229.1	5487.7	4654.5	3751.9	3055.0	2670.7	2588.9	2623.6	2635.9	2648.4
22.5°	6474.6	6090.3	5281.8	4270.1	3213.7	2613.7	2425.2	2427.6	2489.7	2556.6	2544.2
25°	6526.7	6035.7	5031.4	3888.2	2802.1	2397.9	2338.4	2330.9	2378.1	2412.8	2417.7
27.5°	6482.0	5941.5	4776.0	3412.1	2464.9	2254.0	2241.7	2246.6	2261.5	2330.9	2308.6
30°	6628.3	5968.7	4456.1	3012.9	2278.9	2207.0	2192.1	2184.7	2207.0	2226.8	2209.5
32.5°	6809.4	5872.0	4218.0	2628.5	2187.1	2172.2	2142.5	2132.6	2145.0	2125.1	2135.0
35°	6888.7	5854.7	3908.0	2353.3	2115.2	2102.8	2085.4	2083.0	2085.4	2068.1	2053.2
37.5°	6933.4	5936.5	3553.5	2226.8	2070.6	2083.0	2043.3	2038.3	1993.7	2003.6	2011.1
40°	7010.2	5810.0	3265.9	2105.3	2043.3	2018.5	1983.8	1976.4	1946.6	1929.3	1946.6
42.5°	6898.6	5772.9	2983.1	2053.2	2003.6	1976.4	1951.5	1909.4	1899.5	1884.6	1874.7
45°	6809.4	5559.6	2730.2	1988.7	1956.5	1941.6	1894.5	1849.9	1812.7	1827.6	1805.3
47.5°	6876.4	5485.2	2479.8	1934.2	1892.1	1874.7	1827.6	1792.8	1755.7	1738.3	1733.3
50°	7144.1	5624.0	2268.9	1894.5	1837.5	1827.6	1765.6	1725.9	1691.2	1678.8	1683.8
52.5°	7783.9	6003.5	2125.1	1812.7	1785.4	1740.8	1706.1	1656.4	1634.1	1594.5	1619.3
55°	8594.8	6620.9	2088.0	1735.8	1720.9	1681.2	1634.1	1597.0	1554.8	1522.5	1515.1
56°	8855.1	6916.0	2058.2	1706.1	1681.2	1659.0	1597.0	1574.6	1507.7	1500.3	1495.3
57.5°	9065.9	7176.3	2063.1	1649.0	1624.2	1604.4	1567.2	1512.6	1468.0	1440.7	1453.2
60°	8589.8	6717.7	1968.9	1562.2	1557.3	1520.1	1468.0	1443.2	1388.7	1356.4	1349.0
62.5°	6385.3	4560.2	1597.0	1450.6	1448.2	1408.5	1349.0	1321.7	1311.8	1267.1	1267.1
65°	3677.4	2859.1	1381.2	1358.9	1339.0	1299.3	1239.9	1217.5	1192.8	1177.9	1165.5
67.5°	1569.6	1482.9	1254.8	1252.2	1230.0	1180.3	1120.9	1086.2	1053.9	1024.2	1039.0
70°	1138.2	1155.5	1133.2	1120.9	1093.6	1031.6	979.5	937.4	887.8	867.9	882.8
72.5°	902.6	939.8	972.0	974.6	942.3	870.4	813.3	756.3	701.7	674.5	686.9
75°	684.4	709.2	741.4	748.9	701.7	652.2	597.6	538.1	495.9	463.7	468.7
77.5°	493.5	488.5	518.2	513.3	491.0	456.2	406.7	352.1	305.0	275.3	277.7
80°	337.2	344.7	362.1	359.5	332.3	310.0	272.7	228.2	193.4	168.6	163.7
82.5°	235.6	248.0	262.8	250.4	228.2	205.8	178.5	146.3	119.0	99.2	94.2
85°	84.4	96.7	111.6	119.0	126.5	121.5	101.7	81.8	59.5	49.6	47.1
87.5°	17.3	19.8	22.3	22.3	22.3	19.8	17.3	17.3	14.9	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)